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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/527,325	10/28/2005	Salvatore Lo Presti	2503-1141	3504

466 7590 08/29/2007
YOUNG & THOMPSON
745 SOUTH 23RD STREET
2ND FLOOR
ARLINGTON, VA 22202

EXAMINER

MESH, GENNADIY

ART UNIT	PAPER NUMBER
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1711

MAIL DATE	DELIVERY MODE
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08/29/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/527,325	Applicant(s) LO PRESTI ET AL.	
	Examiner Gennadiy Mesh	Art Unit 1711	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 17 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 14-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 14-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

Applicant Amendment filed on August 17,2007 is acknowledged.

Rejection is maintained as it was set forth in previous Office Action mailed on April 17,2007, but altered due to amendment.

Claim Rejections - 35 USC § 103

1. Claims 14-15, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barrow (WO 01/55051) in view of Balkum (US 2002/0050233).

Regarding Claims 14 and 15 Barrow discloses use of plastic aggregates in lightweight concrete articles, particularly fused or adhered granulated aggregates(lines 23 –25,page 6 and lines 1-5,page 7) - made from several sources, including recycled PET bottles (lines 5-10,page 2), by passing mixed granulated material into heated pressure chamber (see lines 6-25, page 7 and lines 11-16,page 12).

Barrow is silent regarding temperature in the heated chamber. However, Balkum teach that sand particles can be applied to plastic scrap in order to improve bonding of aggregates to cement based binder (see abstract) and provide temperature range for this process, depending on type of plastic, from about 120⁰C to about 480⁰C (see claims 9,14and [0044]). Note, that PET has melt point in range of 250C and will be become soften at this temperature.

Therefore, it would have been obvious to ordinary skill in the art to adjusted temperature in a process of Barrow to the range of 250C – 260C as it claimed by

Art Unit: 1711

Applicant in order to obtain aggregates from PET with sand particles bonded to surface by method taught by Balkum.

2. Claims 16,18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barrow (WO 01/55051) in view of Balkum (US 2002/0050233) as it was applied to claims 14-15, 17 and 19 above and in further view of Fong (US 6,368,682).

Barrow in view of Balkum is silent about surface treatment of PET flakes with flame.

However, surface flaming in order to increase adhesion of PET is well known in the art.

Fong teach that priming or flaming surface of PET provide improvement in adhesion.(see lines 27 – 43,column 6).

Therefore, it would have been obvious to ordinary skill in the art to add step of flame treatment of PET surface, as it taught by Fong, before applying sand to PET flakes aggregates, in order to improve bonding of sand to PET in a method taught by Barrow in view of Balkum.

Response to Arguments

Applicant's arguments with respect to claims 14-20 have been considered but are moot in view of the new ground(s) of rejection.

Art Unit: 1711

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gennadiy Mesh whose telephone number is (571) 272 2901. The examiner can normally be reached on 10 a.m - 6 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272 1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1711

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gennadiy Mesh
Examiner
Art Unit 1711

GM



James J. Seidleck
Supervisory Patent Examiner
Technology Center 1700